



OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**VOLVO A25D 1017 (S/N 134424)**  
Component  
**Hydraulic System**  
Fluid  
**AW HYDRAULIC OIL ISO 46 (--- QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>CL0005061</b>	CL0003992	CL0002197
Sample Date		Client Info		<b>03 Jan 2024</b>	05 Feb 2023	01 Jun 2021
Machine Age	hrs	Client Info		<b>14280</b>	13330	12580
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>7</b>	5	6
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	1	2
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>150	<b>5</b>	4	6
Tin	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

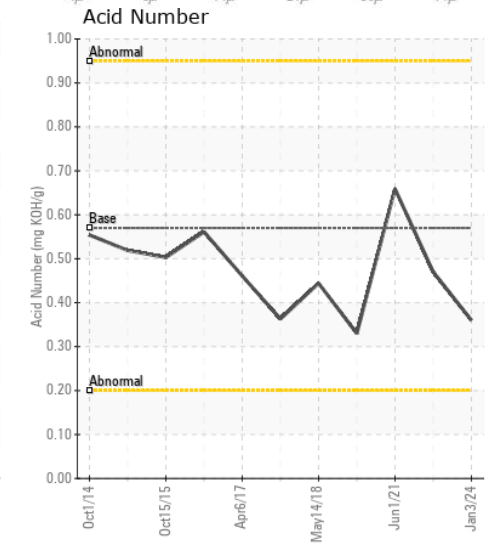
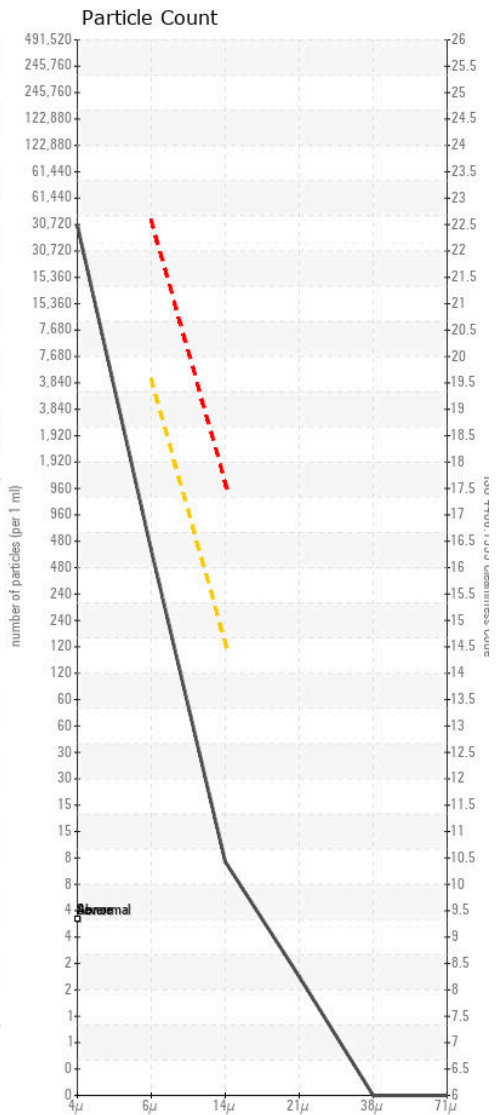
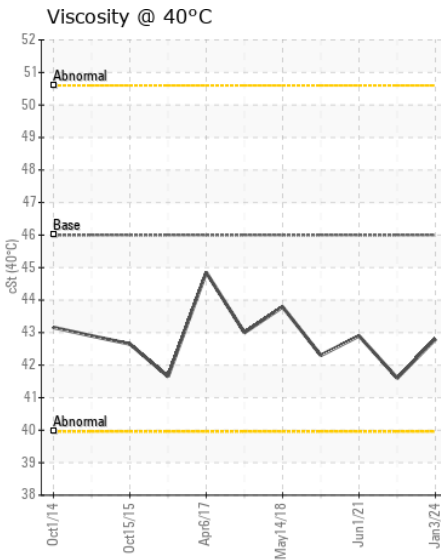
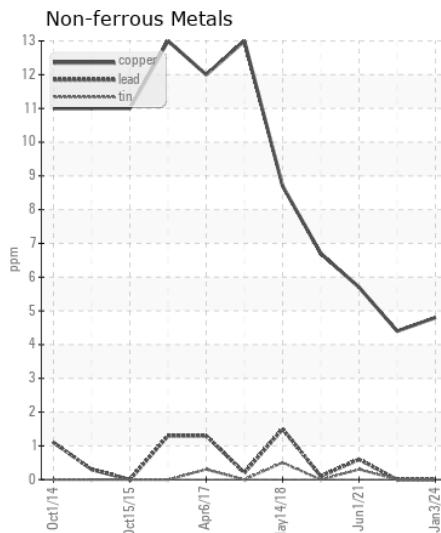
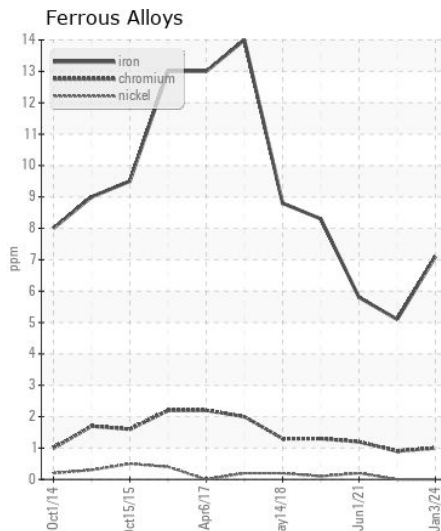
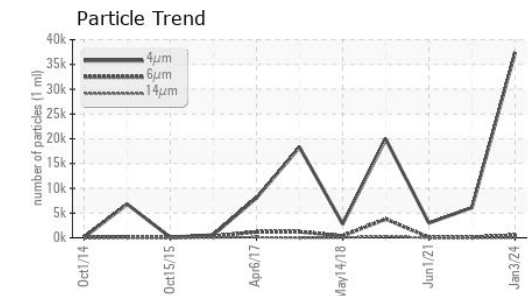
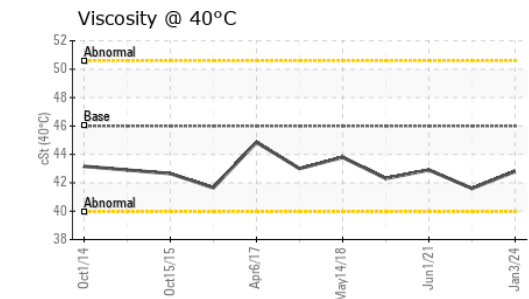
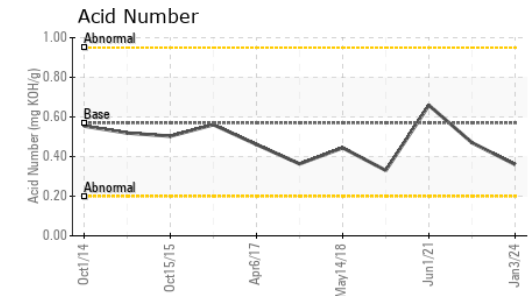
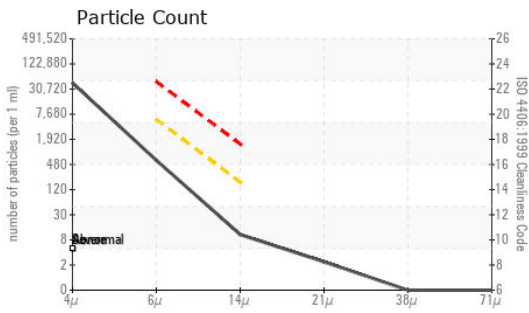
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	5	8
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>37397</b>	6102	2989
Particles >6µm		ASTM D7647	>5000	<b>532</b>	103	90
Particles >14µm		ASTM D7647	>160	<b>9</b>	3	5
Particles >21µm		ASTM D7647	>40	<b>2</b>	1	0
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>-/19/14	<b>22/16/10</b>	20/14/9	19/14/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	2
Boron	ppm	ASTM D5185m	5	<b>4</b>	5	16
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>2</b>	3	6
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	25	<b>18</b>	23	37
Calcium	ppm	ASTM D5185m	200	<b>468</b>	660	1204
Phosphorus	ppm	ASTM D5185m	300	<b>390</b>	364	479
Zinc	ppm	ASTM D5185m	370	<b>421</b>	476	585
Sulfur	ppm	ASTM D5185m	2500	<b>1643</b>	1892	2018
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.36</b>	0.47	0.659
Visc @ 40°C	cSt	ASTM D445	46	<b>42.8</b>	41.6	42.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : CL0005061 **Received** : 10 Jan 2024  
**Lab Number** : 06057335 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10823284 **Diagnostician** : Don Baldrige  
**Test Package** : CONST

**PURCELL CONSTRUCTION**  
 3100 HIGH RIDGE RD  
 CHARLOTTE, NC  
 US 28270  
 Contact: BEN MILKE  
 ben@purcellconst.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)